

(19) World Intellectual Property
Organization
International Bureau



550 226

(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083439 A1

(51) International Patent Classification⁷: C12N 15/62,
15/63, 15/70, 11/00

(21) International Application Number:
PCT/TR2003/000019

(22) International Filing Date: 20 March 2003 (20.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): SABANCI UNIVERSITESI [TR/TR]; Orhanli, 34956 Tuzla-Istambul (TR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SAHIN, Erinc [TR/TR]; Sabanci Universitesi, Faculty of Engineering & Natural Sciences, Biological Sciences & Bioengineering Program, Orhanli 34956 Tuzla- Istanbul (TR). TARALP, Alpay [TR/TR]; Sabanci Universitesi, Faculty of Engineering & Natural Sciences, Biological Sciences &

Bioengineering Program, Orhanli 34956 Tuzla- Istanbul (TR). SAYERS, Zehra [TR/TR]; Sabanci Universitesi, Faculty of Engineering & Natural Sciences, Biological Sciences & Bioengineering Program, Orhanli 34956 Tuzla- Istanbul (TR).

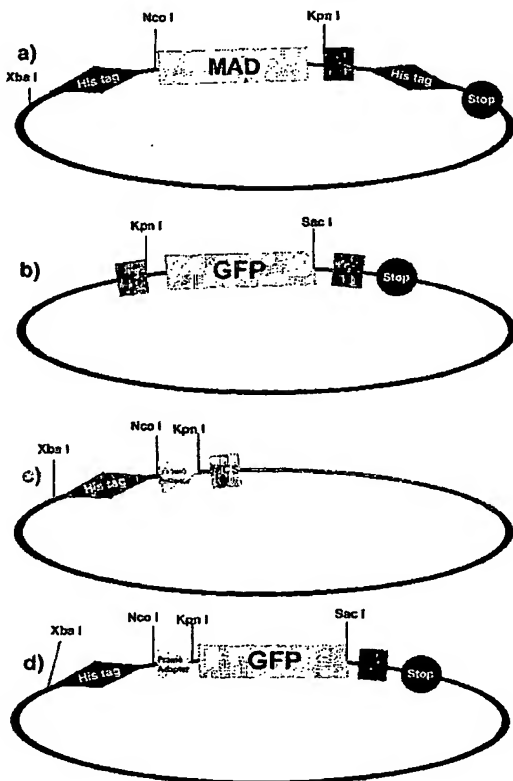
(74) Agent: ARKAN, Selda; Alfa Patent Ltd. Co., Agaciragi Sokak 7-9, Pamir Apt. No:3, Gumussuyu, 34437 Istanbul (TR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: CIRCULAR RECOMBINANT PLASMID DNA CONSTRUCTS AND THEIR PROTEIN PRODUCTS, METHODS OF PREPARATION AND IMMOBILISATION OF PROTEINS ON SUPPORT



(57) Abstract: The invention relates to new circular recombinant plasmid DNA constructs and their protein products, to the use of said protein products in immobilisation, visualisation and quantification of enzymes and proteins on compatible support material. The invention also relates to a method of preparation and immobilisation of the protein on a compatible support material, to the immobilised proteins obtained by said method as well as the use of said immobilised proteins in several applications.

BEST AVAILABLE COPY

WO 2004/083439 A1



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *with amended claims*

BEST AVAILABLE COPY